COMMENCEMENT

NORTH DAKOTA STATE UNIVERSITY

WINTER 2023

SOCIAL MEDIA GUIDE

Join the virtual commencement celebration on social media.

Be sure to tag NDSU and use the hashtag #NDSUGrad in your posts.

Also feel free to share our updates from the following platforms:

Facebook
Post to your own timeline and use #NDSU.

Twitter
Our handle is @NDSU.

Instagram
You can find us under "North Dakota State University."

Congratulations to all #NDSUGrads. You have achieved your goal of earning a degree and we wish you the very best in the future! Thank you for being part of the commencement conversation on social media. #NDSUGrad

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THIS PROGRAM IS NOT AN OFFICIAL GRADUATION LIST. (REFER TO SPRING 2023 PROGRAM)

While every effort is made to ensure accuracy in this commencement program, deadlines may result in omission of some names and use of names of persons not completing graduation requirements as intended. This program, therefore, should not be used to determine a student's academic or degree status. The university's official registry for conferral of degrees is the student's permanent academic record, kept by the Office of Registration and Records.

NDSU NORTH DAKOTA STATE UNIVERSITY

WINTER COMMENCEMENT
DECEMBER 15, 2023

President David Cook presiding

PROCESSIONAL . . . . . POMP AND CIRCUMSTANCE, EDWARD ELGAR
North Dakota State University Brass Ensemble
Associate Professor Jeremy Brekke, Conductor

PRESENTATION OF THE COLORS . . . . . NDSU AIR FORCE AND ARMY ROTC BATTALION

THE NATIONAL ANTHEM . . . . . THE STAR-SPANGLED BANNER, FRANCIS SCOTT KEY
North Dakota State University Brass Ensemble
Associate Professor Jeremy Brekke, Conductor
2 p.m. Christopher Loeffler
5 p.m. Makayla Holte

Please remove your caps and remain standing until after the singing of the National Anthem.

WELCOME AND REMARKS . . . . . PRESIDENT COOK

GREETINGS . . . . . JEFFRY VOLK
North Dakota University System State Board of Higher Education

INTRODUCTION OF STUDENT SPEAKER . . . . . INTERIM DEAN RON WERNER-WILSON
College of Health and Human Sciences
2 p.m. ceremony
INTERIM DEAN ALAN KALLMEYER
College of Engineering
5 p.m. ceremony

STUDENT ADDRESS . . . . . AMBROSIA YELLOW BIRD
Graduating Class Representative
2 p.m. ceremony
SIMON KROLL
Graduating Class Representative
5 p.m. ceremony

PRESENTATION OF CANDIDATES FOR DEGREES . . . . . PROVOST DAVID BERTOLINI

CONFERRAL OF HONORARY DOCTORATE . . . . . PRESIDENT COOK
Norma Peltier
Honorary Doctorate of Agriculture
5 p.m. ceremony

CONFERRAL OF DEGREES. . . . . PRESIDENT COOK

PRESENTATION OF COLLEGES

2 P.M.
Arts and Sciences . . . . . Dean Kimberly Wallin
Health and Human Sciences . . . . . Interim Dean Ron Werner-Wilson

5 P.M.
Graduate and Interdisciplinary Studies . . . . . Interim Dean Mark Nawrot
Agriculture, Food Systems, and Natural Resources . . . . . Interim Associate Dean Carrie Hammer
Business . . . . . Dean Kathryn Birkeland
Engineering . . . . . Interim Dean Alan Kallmeyer

CLOSING REMARKS . . . . . PRESIDENT COOK

NDSU SCHOOL SONG. . . . . THE YELLOW AND THE GREEN, MINARD-PUTNAM
2 p.m. Christopher Loeffler
5 p.m. Makayla Holte

RECESSIONAL . . . . . THE CROWNING GLORY, ALFRED REED
North Dakota State University Brass Ensemble
Associate Professor Jeremy Brekke, Conductor

Please remain seated until the recessional concludes.

CLASS REPRESENTATIVE

Abrosia Yellow Bird 2 P.M. CEREMONY
Yellow Bird is receiving a Bachelor of Science in human development and family science. She is a fellow in the Grantmakers for Girls of Color and Seventh Generation Fund New Songs Rising Initiative, as well as a member of the United States Department of Agriculture and American Indian Science and Engineering Society Indigenous Knowledge Research Program. She also has worked with Wen Wang, NDSU assistant professor of human development and family science, in the NDSU Child's Motivation, Prosociality, and Achievement Lab as lab coordinator and senior research assistant. Yellow Bird said she plans to earn a master's degree in counseling. A resident of Fort Berthold Indian Reservation, she is the daughter of Michael Yellow Bird and Tanya Howell.

Simon Kroll 5 P.M. CEREMONY
Kroll was highly active in Farmhouse Fraternity and has been director of house operations and director of administration for the student organization. He performed community and campus outreach as an NDSU Engineering Ambassador and was a tour guide and small group speaker. Kroll held several internships as an NDSU student, including working at NASA Goddard Space Flight Center in Maryland. Kroll will receive his Bachelor of Science in computer engineering. He said he accepted a job as a trading analyst and software engineer at a Minneapolis commodity trading and consulting company. From Royalton, Minnesota, he is the son of Duane and Linda Kroll.

SOLOISTS

Christopher Loeffler 2 P.M. CEREMONY
Loeffler is earning his master's degree in music education. He is a member of the NDSU Concert Choir, Madrigal Singers, Gold Star Marching Band, Drumline and Bison Arts Singers. He was president of the Concert Choir as an undergraduate and is the Men's Choir Chair of the North Dakota branch of the American Choral Director's Association and the State B East representative for the North Dakota Music Educator's Association. The Instrumental and Choral director at Grafton High School in North Dakota, Loeffler is the son of Laurie and Terry Loeffler. His career goal is to inspire a new generation of leaders through music.

Makayla Holte 5 P.M. CEREMONY
Holte is a vocal music education undergraduate student from Grand Forks, North Dakota. She has performed with the NDSU Concert Choir, Madrigal Singers and Bison Arts Singers and also is an intern for Fargo Moorhead Youth Choir. Holte is a member of the NDSU College Music Society and National Association for Music Educators. She is the daughter of Rick and Laurie Holte.

COLLEGE OF GRADUATE AND INTERDISCIPLINARY STUDIES

Candidates will be presented by Interim Dean Mark Nawrot and marshaled by Dr. Tim Greives and student marshal Christine Cornish.

DOCTOR OF PHILOSOPHY

Shashi Bhushan *Environmental and Conservation Sciences*
"Enhancement of Biofuel Production Through Pretreatment Strategies Using Algae as a Substrate"
Advisors: Halis Simsek and Sulaymon Eshkabilov

Kui Hu *Environmental and Conservation Sciences*
"Evaluating Past Climate Change Effects on Prairie Pothole Wetland Ecosystems Using Limnological and Paleolimnological Methods"
Advisors: Jon Sweetman and Craig Stockwell

Jesmin Jahan *Cellular and Molecular Biology*
"Molecular Mechanisms of Enhanced Vasoreparative Functions in Diabetic CD34+ Stem/Progenitor Cells by Transforming Growth Factor-β1 Silencing"
Advisor: Yagna Jarajapu

Qian Ma *Materials and Nanotechnology*
"Soy Protein- and Nanocellulose-Based Composites for a Multitude of Applications"
Advisor: Long Jiang

Mario A. Morales *Genomics, Phenomics, and Bioinformatics*
"High-Throughput Extraction of Seed Traits Using Deep Learning in Pulse Crops: A Case Study in Pea"
Advisor: Nonoy Bandillo

MASTER OF SCIENCE

Mingyu Cho
Materials and Nanotechnology
Heather M. Davis
Environmental and Conservation Sciences
Jessica L. Duttenhefner
Environmental and Conservation Sciences
Taofeek Mukaila
Environmental and Conservation Sciences
Madeline Waldock
Environmental and Conservation Sciences

COLLEGE OF AGRICULTURE FOOD SYSTEMS AND NATURAL RESOURCES

Candidates will be presented by Interim Associate Dean Carrie Hammer and marshaled by Dr. Todd West and student marshal Kiley Kvamme.

DOCTOR OF PHILOSOPHY

Kerri Bochantin *Animal Sciences*
"Effects of Divergent Planes of Nutrition on Sire and Offspring Outcomes"
Advisor: Carl Dahlen

Ryan R. Buetow *Plant Sciences*
"Factors Influencing Wheat Establishment and the Role of Uniform Stand Establishment on Yield"
Advisor: Joel Ransom

Liuyi Chang *Cereal Science*
"Potential Application of Pulse-Derived Proteins for Foaming and Emulsifying Agents in Food"
Advisor: Jiajia Rao

Kun Gao *Cereal Science*
"Modification of Pea Protein Functionalities: Impact of Glycation Between High Intensity Ultrasound Pretreated Pea Protein and Glucose on Protein Solubility"
Advisor: Bingcan Chen

Erin M. Gaugler *Range Science*
"The Use of Livestock Integration to Regenerate Cropland and Increase Grazing Efficiency on Rangelands in the Great Plains of North America"
Advisors: Miranda Meehan and Kevin Sedivec

Zixuan Gu *Cereal Science*
"The Role of Malting Process on the Development of Aromatic Compounds in Malts"
Advisor: Bingcan Chen

Evan L. Salsman *Plant Sciences*
"Genomic Selection for Grain Yield in Durum Wheat [Triticum turgidum L. Subsp. Durum (Desf.) Husn.]"
Advisor: Xuehui Li

MASTER OF EDUCATION

Laura R. Lehmann
Family and Consumer Sciences Education

Darin L. Spelhaug
Agricultural Education

Shell C. Tumberg
Agrcultural Education

MASTER OF NATURAL RESOURCES MANAGEMENT

Madhu Cornelius

Heather A. Husband

Mikki R. Wilson

MASTER OF SCIENCE

Namrata Acharya
Plant Sciences

Lucas Andes
Microbiology

Cecelia B. Castleberry
Soil Science

Stephen Cary Cavnar
International Agribusiness

Matthew Chaney
Animal Sciences

Nicholas R. Dolan
Agribusiness and Applied Economics

Annie Ikwambe Inokoh Efeti
Agribusiness and Applied Economics

Joseph C. Figueroa Cerna
Plant Sciences

Maverick Guenther
Animal Sciences

Connor C. Hagemeyer
Horticulture

Zachary E. Johnson
Agribusiness and Applied Economics

Ela Angeli Jusino Montalvo
Plant Sciences

Heymant Kaur
Cereal Science

Jacob M. Lachowitzer
Plant Sciences

Munkaila Lambongang
Agribusiness and Applied Economics

Sarah Luecke
Microbiology

Amanda Malik
Cereal Science

Maram Fathi Mohammed Milad
Horticulture

Weerasinghe Mudiyanselage Vimukthi Harindra Molligoda
Cereal Science

Edmond Loni Molua Lisinge
Agribusiness and Applied Economics

Mckayla A. Neubauer
Plant Sciences

Dorothea Opoku Mensah
Agribusiness and Applied Economics

Beena Pun
Microbiology

Diego Vargas Yana
Cereal Science

Carlos Federico Velasquez Villegas
Plant Sciences

Emily Webb
Microbiology

Cerly Rini Yeruva
Plant Sciences

Israt Ansari Zaman
Plant Pathology

BACHELOR OF SCIENCE

Mikenzi C. Anderson
Veterinary Technology
Samuel P. Askegaard
General Agriculture
•• **Sydney Batzlaff**
Veterinary Technology
Tyler H. Bjerke
Crop and Weed Sciences
Joseph R. Boutain
Horticulture and Urban Agriculture
•• **Carter Brutger**
Natural Resources Management
Grace C. Bryngelson
Natural Resources Management
• **Trevor A. Caflisch**
Agribusiness
•• **Madison J. Christenson**
Biotechnology
Microbiology
Alexander D. Comez
Food Science
Hallie Counts
Horticulture and Urban Agriculture
Hunter A. Covey
Economics
Abby d'Eustachio
Natural Resources Management
Carissa M. Dougherty
Animal Science
•• **William H. Enderson**
Horticulture and Urban Agriculture
Kaylee R. Follman
Agricultural Education
Maria N. Franks
Equine Science
Psychology
Benjamin Frederick
Agribusiness
•• **Samantha Goetsch**
Economics
• **Kerim Hajric**
Biotechnology
Marlaysia C. Haskell
Natural Resources Management
Kieran P. Hendel
Economics
Sean P. Hermes
Agricultural Economics
Benjamin R. Johnsrud
Precision Agriculture
••• **Elizabeth F. Krause**
Horticulture and Urban Agriculture
• **Kaylan H. Kremer**
Veterinary Technology
Carter J. Langer
Economics
Accounting
Claire Larkin
Horticulture and Urban Agriculture
Hanna R. Larson
Animal Science
Hayden C. Lick
Agricultural Economics
Theodore P. Mandt
Veterinary Technology
Ethan McDonald
General Agriculture
Christian S. Melby
Animal Science
Alexander F. Melnarik
General Agriculture
Shelby L. Mertz
Animal Science
Trisha L. Miller
Agricultural Economics
Grace K. Mogen
Crop and Weed Sciences
•• **Mercedes Morin**
Biotechnology
Abigail Nelson
Biotechnology
••• **Raechel L. Osborn**
Animal Science
Cameron B. Pederson
Agricultural Economics
Kaden S. Pederson
Economics
Hilary Peterson
Horticulture and Urban Agriculture
Rachel M. Petron
Crop and Weed Sciences
Gabriel C. Quandt
Agricultural Economics
Nathan L. Roth
Agricultural Economics
•• **Steven J. Schmid**
Agricultural Economics
•• **Josi Solsaa**
Animal Science
Finnian T. Speier
Economics
Tyler J. St Onge
Precision Agriculture Technology and Management
••• **Reed Thoma**
General Agriculture
Rylee Thompson
Animal Science
••• **Michael G. Warne**
Natural Resources Management
Ciarra A. Weber
Animal Science
Danielle A. Wright
Microbiology

COLLEGE OF ARTS AND SCIENCES

Candidates will be presented by Dean Kimberly Wallin and marshaled by Ron Degges and student marshal Austin Anderson.

DOCTOR OF MUSICAL ARTS

Kewen Cheng
"An Examination of Selected Chinese Ethnic Choral Music from Inner Mongolia, Yunan Province, and Central Plains Area."
Advisor: Jo Ann Miller

Ryan D. Loken
"An Exploration of Music Through Structure: An Interpretive Analysis of 'The Mathematics of Resonant Bodies' by John Luther Adams and its Implications on Performance"
Advisor: Sigurd Johnson

Magnus Mulligan
"Emily Mayers first Symphony"
Advisor: Warren Olfert

German Rojas
"The Musical Lives of Cuban Trumpet Players Juan Munguía (b. 1956), Orlando Barreda (b. 1968), and Amik Guerra (b. 1973) and their Influence in Spain, Colombia, and Switzerland."
Advisor: Jeremy Brekke

Ryan M. Smit
"Twentieth-Century Dutch Composers: An Analysis of Selected Psalm Settings"
Advisor: Michael Weber

DOCTOR OF PHILOSOPHY

Loren L. Baranko Faught *Education*
"Efficacy of Early Intervention as a Retention Tool"
Advisor: Laura Dahl

Ian S. Berry *Communication*
"Electric Truck Mobility: A Semiotic Analysis of the First Four Electric Pickups in the United States."
Advisor: Zoltan Majdik

John J. Forsman *Mathematics*
"Rational Powers and Root Closure of Ideals"
Advisor: Catalin Ciuperca

Anuj Ghimire *Biological Sciences*
"The Effects of Early Life Developmental Conditions on Growth and Telomeres in House Sparrows (Passer domesticus)"
Advisor: Britt Heidinger

Spencer J. Gilman *Chemistry*
"Synthesis and Characterization of Thieno[3,4-b] pyrazine Based Near-Infrared Materials"
Advisor: Seth Rasmussen

Ryan Goke *Communication*
"Organizational Dissent? Examining Channel Privacy and the Theory of Planned Behavior as Antecedents to Organizational Dissent"
Advisor: Catherine Kingsley Westerman

Jillene A. Krause *Communication*
"Sexual Harassment and Employee Identification in Radio Broadcasting"
Advisor: Justin Walden

Charys A. Kunkel *Education*
"Enhancing Student Nurse Clinical Experiences Through Collaborative Academic-Hospital Partnerships: The Development and Preliminary Psychometric Testing of a New Instrument to Measure Nursing Students' Perceptions of the Inviting Behaviors of Staff Nurses"
Advisor: Laura Dahl

Qiaobin Li *Chemistry*
"Enzyme Under Confinement: From Biomaterials Development to Structural Basis Underlying the Functionality"
Advisor: Zhongyu Yang

Danny J. Luecke *Mathematics*
"Dakota/Lakota Math Connections: Applying an Indigenous Research Paradigm to Research in Undergraduate Math Education"
Advisors: William Martin and Warren Christensen

Austin L. MacRae *Chemistry*
"Bridging the Gap Between Chemical and Biochemical Catalysis Utilizing Metal-Organic Frameworks"
Advisor: Zhongyu Yang

Pratyush Kumar Mishra *Mathematics*
"Algebraic and Dynamical Study of Subgroup Structures of Some Classes of Finitely Generated Groups"
Advisor: Azer Akhemedov

Yehor Polunin *Coatings and Polymeric Materials*
"Sustainable Thermoplastics and Thermosets Originated from Plants' Oil and Biomass Constituents"
Advisor: Andriy Voronov

Kenneth L. Smith *History*
"Mind and Hand: Formative Years of a Dakota Prairie Town"
Advisor: Tom Isern

Nicole M. Snyder *Biological Sciences*
"Predicting Phenotypes: How Avian Offspring Integrate Cues of Season from their Environment and Mothers"
Advisor: Tim Greives

Quinlyn T. Waulters-Kline *Chemistry*
"Selective Synthesis of Tertiary Chiral Centers in Mukaiyama-Michael Reactions and the Formation of Biologically Active Molecules."
Advisor: Mukund Sibi

Kurt R. Williams *Biological Sciences and Discipline-Based Education Research*
"Understanding Students and their Engagement in Contemporary Undergraduate Biology Education: Affective, Financial, and Life-Load Factors in Student Success"
Advisor: Jenni Momsen

MASTER OF ARTS

Taylor Brown
Communication
Shane W. Engeland
History
Petra L. Gunderson-Leith
History
Emma H. Tomb
History

MASTER OF EDUCATION

Katie Brandt
Educational Leadership
Bhairav Gupta
Education
Nyk B. Hope
Educational Leadership
Margaret S. Latterell
Educational Leadership
Joshua L. Standing Elk
Educational Leadership

MASTER OF LANDSCAPE ARCHITECTURE

Xantippean Lonewolf

MASTER OF MUSIC

Michael R. Bartunek
Jensen Grimley
Melissa K. Koch
Ziyan Hu
Hana N. Trump

MASTER OF SCIENCE

Elyse M. Anderson
Criminal Justice
Faith Daniel
Sociology

BACHELOR OF ARTS

Shannon G. Boyle
Spanish
• **Joslin K. Forness**
Biological Sciences
Claire J. Glade
Spanish
•• **Madalyn J. Olson**
Strategic Communication
••• **Emmaline Schmidt**
Philosophy/Ethics

BACHELOR OF FINE ARTS

••• **Yangyouyi Zou**
Art

BACHELOR OF MUSIC

•• **Zackary B. Carlson**
Music
•• **Isaac Homuth**
Music
••• **Alison R. Renner**
Music
•• **Sophia C. Strand**
Music

BACHELOR OF SCIENCE

• **Luke V. Aamold**
Biological Sciences
Brigg L. Abraham
Psychology
Obed Addo-Ansah
Criminal Justice
• **Ava S. Aigner**
Psychology
• **Susan M. Andersen**
Psychology
• **Christa Anderson**
Strategic Communication
Robert Anderson
Philosophy/Ethics
Jacie M. Ankenbauer
Biological Sciences
Hayden Austin
Journalism
••• **Carsyn B. Bachmeier**
Psychology
•• **Julia M. Bartholomay**
Psychology
Skylar D. Bayer
Psychology
Brett K. Berginski
Sociology
••• **Amanda J. Bergman**
Anthropology
Sociology
• **Kaitlyn M. Bice**
Psychology
• **Mason L. Bitz**
Apparel, Retail Merchandising and Design
••• **Grace L. Blair**
Biochemistry and Molecular Biology
Peyton Blotsky
English Education
English
• **Nathan J. Borthwick**
Philosophy/Ethics
• **Ashley Boyer**
Anthropology
•• **Alana J. Bozell**
Psychology
Tylia P. Buchannon
Sociology
Chenoa L. Bumpus
Biological Sciences
Jessica M. Butler
Social Science Education
McKinnon T. Carlson
History
• **Megan Clark-Lowell**
Biological Sciences
•• **Caleb W. Claxton**
Biological Sciences
•• **Sophia G. Cody**
Physical Education
Health Education

••• **Shane L. Corbett**
Psychology
International Studies

Hannah L. Dahm
Psychology

Emmanuelyne Dargbeh
Political Science

• **Emily R. Davenport**
Anthropology

•• **Averi L. Dawkins**
Biological Sciences

••• **Phoebe M. Diem**
English Education

•• **Bailee J. Dierks**
Physical Education
Health Education

Kayleigh Dietel
Criminal Justice

Cadence M. Dove
Psychology

Benjamin J. Duppler
Emergency Management

•• **Jackson R. Dyrhaug**
Criminal Justice

•• **Ana Evenson**
Psychology

• **Joshua F. Framke**
Psychology
Music

Ashley M. Frank
Comprehensive Science Education

Jaden G. Friedt
Psychology

• **Luke D. Geiser**
Social Science Education

• **Rukhsana F. Ghauri**
Psychology

••• **Samantha Gisi**
Mathematics

Claire J. Glade
Psychology

•• **Elizabeth L. Goodhart**
Biological Sciences

••• **Colin R. Graham**
Mathematics

Charlene J. Grahn
Psychology

Claire A. Graner
Journalism

• **Myla R. Grengs**
Criminal Justice

• **Isabel E. Grundstrom**
Psychology

••• **Dain S. Haas**
Physical Education

Trygve E. Hanson
Political Science

• **Kaitlyn Harter**
Statistics

Rachael B. Hartl
Criminal Justice

Abigail Hendrickson
Criminal Justice

••• **Nathaniel C. Hensel**
Biological Sciences

• **Logan Hofstedt**
Criminal Justice

Claire Honetschlager
Psychology

• **Kidde C. Itto**
Psychology

Ayan J. Jama
Political Science
International Studies

Diana N. James
Philosophy/Ethics

• **Kassidy L. Johnson**
Chemistry Education

Anzi O. Kennedy
Criminal Justice

•• **Anne Kesler**
Strategic Communication

• **Logan T. Kjos**
Mathematics

Williametta G. Kollie
Psychology

Jacob R. Koskovich
Sociology

Noah J. Kujanson
Psychology

•• **Nora A. Lagergren**
Biological Sciences

Braden J. Larson
Mathematics

Brennan A. Lemar
Biological Sciences

Ella P. Lenard
English

• **Peyton D. Lewis**
Psychology

Yeno G. Lokosang
Political Science
Criminal Justice

• **Savannah Lussier**
Strategic Communication

Jordan N. Mahrer
Physical Education
Health Education

Cassidy M. Marsh-Bipes
Psychology

Itzel M. Martinez-Dominguez
Psychology

Faith B. Morris
Biological Sciences

•• **Rylie J. Morrow**
Biological Sciences

Matthew D. Motschenbacher
Criminal Justice

Sarah Nash
Biological Sciences

Eric D. Nephew
Strategic Communication

• **Stephanie Nolasco**
Criminal Justice

Erin K. O'Harra
Social Science Education

Olivia J. Osgerby
Political Science
Criminal Justice

Abby Otto
Biological Sciences

••• **Clare E. Pederson**
Psychology

• **Samantha J. Pithey**
Biological Sciences

• **Abby Purcell**
Biological Sciences
Anna M. Ransom
Biological Sciences
Peyton E. Riley
Criminal Justice
• **Parker A. Rogers**
Social Science Education
Madison M. Rud
Psychology
•• **Delaney Sage**
Biological Sciences
Psychology
Ross C. Salisbury
Psychology
Gavin R. Samp
Psychology
•• **Ashley J. Sather**
Psychology
• **Nicole B. Schmitz**
Biological Sciences
•• **Emma J. Shook**
Art
Anthony R. Sigurdson
Biological Sciences
Isaiah L. Skiple
Biological Sciences
•• **Kaitlin R. Slaubaugh**
Social Science Education
Hailey M. Smith
Psychology
Kaylina C. Snidarich
Apparel, Retail Merchandising and Design
••• **Kaia J. Sorby**
Psychology
••• **Alayna M. Spaude**
Criminal Justice
••• **Margaret Sperle**
Criminal Justice
McKenna Strand
Biological Sciences
• **Ellie Such**
Criminal Justice
Olivia M. Thomas
Criminal Justice
• **Kara G. Thuringer**
Biological Sciences
Meagan R. Tollefson
Biological Sciences
Alexis J. Triebenbach
Biological Sciences
• **Sydney L. Ulrich**
Strategic Communication
Art
Isabel VanderWaal
Philosophy/Ethics
Brenden V. VanWechel
Agricultural Communication
Anna M. Viergutz
Strategic Communication
•• **Ashleigh M. Voll**
Biological Sciences
Brittany Vosburg
Biological Sciences
• **Carson D. Wahl**
Biological Sciences
Evan R. Werdal
Political Science
Faith R. Williams
Criminal Justice
• **Laura R. Wuflestad**
Political Science
• **Maddison B. Zehnder**
Biological Sciences
• **Gabrielle Ziebarth**
Apparel, Retail Merchandising and Design
Amy E. Zniewski
Psychology

BACHELOR OF UNIVERSITY STUDIES

Bergen Amb
• **Amy M. Austing**
Ariana L. Blacksmith
Kenneth C. Brazerol
Jacob D. Crompton
Javier G. Derritt
Daryl M. Fellbaum
Gayle S. Gauck
Marie Gelin
Dalton J. Hamm
• **Salmata Korgho**
Alexander D. Kotula
Joseph D. Leier
Jack D. Luster
•• **Jodi D. Pierce**
Alexandra M. Radermacher
Hunter Z. Rosenbaum
• **Elise M. Rue**
Andrew D. Skogrand
Adrian J. Soutor
Brian K. Walz
Matthew J. Williams
• **Jonguk Yeom**
Owen D. Zacchea

COLLEGE OF BUSINESS

Candidates will be presented by Dean Kathryn Birkeland and marshaled by Dr. Fone Pengnate and student marshal Samantha Tate.

DOCTOR OF PHILOSOPHY

Taraneh Askarzadeh *Transportation and Supply Chain*
"Quantifying the Cost-Reduction of Using Drones to Monitor Linear Transportation Assets: A Case Study of Railroad Tracks and Bridges"
Advisor: Raj Bridgelall

Derek J. Hungness *Transportation and Supply Chain*
"Three Essays on Sustainable Transportation Planning in an Era of Technological Evolution"
Advisor: Jeremy Mattson

Chijioke Chukwunwendu Ifepe *Transportation & Supply Chain*
"Novel Approaches to Incorporating Uncertainty in Freight Demand Modeling"
Advisor: Diomo Motuba

Juan A. Molina *Transportation and Supply Chain*
"Impact of COVID-19 in Public Transit of Rural Areas and Small Communities with Emphasis on Social Isolation Issues in Older Adults"
Advisor: Jeremy Mattson

MASTER OF ACCOUNTANCY

Charlene R. Glur
Cole T. Haller
Jolene M. Kuchera
Georgia R. Moe
Harrison T. Patzer

MASTER OF BUSINESS ADMINISTRATION

Jamie L. Astrup
Brett Bantle
Selena Dodanwalage
Nathan D. DuChene
Kenechukwu C. Ezekwem
Cameron J. Gerszewski
Tracy K. Hillenbrand
Jacob E. Kava
Jeffrey S. Langness
Isabella I. Lien
Stephen Lund
Hunter J. McMullen
Amanda M. Meyer
Jayden L. Price
Garrett D. Ruud
Matthew P. Sandbakken
Mackayla L. Schuelke
Maggie R. Steffen
Jacob J. Streit
Hailun Wang
Allison P. Welsh

MASTER OF SCIENCE

Yeswanth Sai Teja Ambati
Business Analytics

Girish Barla
Business Analytics

Bijay KC
Business Analytics

Temidayo Osinaike
Business Analytics

Rabin Regmi
Business Analytics

Alexis Saucerman
Business Analytics

Dedipya Tangulwar
Business Analytics

MASTER OF SUPPLY CHAIN MANAGEMENT

David Mannah

MASTER OF TRANSPORTATION AND URBAN SYSTEMS

Shawn D. White

BACHELOR OF SCIENCE

•• **Theodore J. Allmaras**
Accounting

•• **Anna O. Alm**
Business Administration

•• **Kathryn L. Amundson**
Marketing

Olivia A. Anas
Finance

• **Andrew Anderson**
Business Administration

• **Blayne S. Anderson**
Finance

Todd J. Anderson
Finance

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Business Administration
Finance

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Keaton E. Bergerson
Marketing

Shelby M. Bergman
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Finance
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•• **Joshua Carlson**
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Accounting
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Business Administration
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Marketing
••• **Chase S. Driscoll**
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Marketing
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Business Administration
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•• **Grayson Haman**
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Business Administration
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Business Administration
•• **Grant D. Laughridge**
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••• **Samuel R. Leervig**
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••• **Coralie Schwartzwalter**
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Finance
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•• **Hunter Sobolik**
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•• **Carter R. Steen**
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Dylan D. Sunderland
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Kailyn M. Swearingen
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••• **Hayden Sylte**
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•• **Tyler Terhark**
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Hayden C. Thompson
Finance
Colby C. Thorlakson
Business Administration
Brady R. Tucker
Accounting
•• **Jack Ulm**
Business Administration
Jessica A. Unruh
Marketing
Global Business
• **Halle M. Vanballegooyen**
Hospitality and Event Management
•• **Nicholas J. Vetter**
Finance
••• **Kaitlyn A. Wahl**
Business Administration
•• **Ava A. Wallerich**
Accounting
• **Cole B. Walth**
Finance
Austin A. Warden
Marketing
••• **Connor J. Weikum**
Finance
• **Jensyn B. Zink**
Finance

COLLEGE OF ENGINEERING

Candidates will be presented by Interim Dean Alan Kallmeyer and marshaled by Dr. Scott Pryor and student marshal Dawson Galde.

DOCTOR OF PHILOSOPHY

Lahcen Akerkouch *Civil Engineering*
"Computational Modeling of Transport Processes in Biological Cells: Insights into Red Blood Cells and Cancer Metastasis"
Advisor: Trung Le

Ismat Ara *Mechanical Engineering*
"Microstructural and Mechanical Propoerties of Selective Laser Melting Processed 316L Stainless Steel-Special Case Studies: Near Perfect Structure,Unconventional Plasticity, and Wear Properties"
Advisors: Annie Tangpong and Fardad Azarmi

Ibrahim Bello *Agricultural and Biosystems Engineering*
"Development of Soybean Formulate and Bioprocessing for Biological Ammonia Production"
Advisor: Ademola Hammed

Zhaofan Li *Civil Engineering*
"Multiscale Modeling of Polymeric Materials Towards Predicting their Multifunctional Behaviors"
Advisor: Wenjie Xia

Yangchao Liao *Civil Engineering*
"Molecular Dynamics Modeling of Crumpled Nanosheets Towards Understanding Structural and Mechanical Behaviors"
Advisor: Wenjie Xia

Rui Miao *Civil Engineering*
"Development and Utilization of Ground and Solar Energy Systems for Space Heating and Cooling in Buildings"
Advisor: Yao Yu

Nitin Rai *Agricultural and Biosystems Engineering*
"Enabling Edge Device for Real-time Weed Identification Using Aerial Images and Optimized Deep Learning Models Geared Towards Spot-spraying Application"
Advisor: Xin (Rex) Sun

Luyang Xu *Civil Engineering*
"Applications of Fiber Optic Sensors for Real-Time Detection and Assessment of Interaction Between Mechanical Loads and Corrosion"
Advisor: Ying Huang

Ricardo R. Zamora *Civil Engineering*
"Anti-Adhesion of Bacterial Cells for Biofouling Mitigation in Membrane Bioreactors"
Advisor: Eakalak Khan

MASTER OF CONSTRUCTION MANAGEMENT

Joseph Jackson

MASTER OF ENGINEERING

Joel Curoe
Electrical and Computer Engineering

Aidan M. Farnen
Electrical and Computer Engineering

Matthew C. Johnson
Electrical and Computer Engineering

MASTER OF SCIENCE

Charitha Lakshmi Ambati
Computer Science

Melika Ansarinejad
Civil Engineering

Bibek Aryal
Mechanical Engineering

Yusuf Asad
Biomedical Engineering

Triveni Beerelli
Computer Science

Benjamin J. Clark
Computer Science

Abhijit Das
Computer Science

Tushar Gawali
Industrial Engineering and Management

Margaret W. Githua
Software and Security Engineering

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Computer Science

Wordh Ul Hasan
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Nusrat Jahan
Agricultural and Biosystems Engineering

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Computer Science

Taha Khan
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Civil Engineering

Jordan Milbrath
Computer Science

Komila Rasuleva
Biomedical Engineering

Sabrina Sanjida Rifa
Computer Science

• Cum Laude *•• Magna Cum Laude* *••• Summa Cum Laude* *+ Summer Candidate*

Noah M. Ritter
Computer Science
Jinan Safah
Biomedical Engineering
Kevin L. Setterstrom
Computer Science
Shibli Sadik Tulip
Agricultural and Biosystems Engineering
Kranthi Swarup Vanka Gurappa
Computer Science
Matthew Tassava
Computer Science
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Mechanical Engineering
Noah Vandal
Biomedical Engineering

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Computer Science
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Computer Science
Haley A. Specht
Computer Science

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Blaine C. Goebel
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Joshua Thomas
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Bryce C. Fox
Bailey A. Kemper
Jacob F. Knox
• **Emma M. Marsolek**
Hayden M. Wiese

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Orlando B. Ekici
Braden R. Wiedmann

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Jake K. Arason
Connor T. Arnold
•• **Emma M. Arstein**
Jordon L. Baas
• **Emily E. Balluff**
••• **Tyler A. Balluff**
Nicholas J. Braiedy
Isaac Brown
Physics
Maverick Coleman
• **Joseph M. Dignan**
• **Caleb R. Fagerlie**
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••• **Malachi Hedstrom**
• **Connor Hosek**
Bryce M. Johnson
Cole A. Johnson
Austin M. Jones
•• **Collin T. Jones**
Benjamin J. Kehborn
•• **Claire E. Ketcham**
Garett B. Klavon
Samuel B. Kolstad
• **Samuel M. Krause**
Graham J. Larson
•• **Michael J. Leidenix**
••• **Ryan D. Luthi**
•• **Katie Lygre**
Joseph W. Manning
Matthew L. Myers
• **Austin Nelson**
••• **Austin M. Nelson**
Alexander J. Pederson
Austin R. Petterson
Matthew P. Preston
Kolbe Rada
••• **Evan T. Rasset**
• **Nathan M. Schilling**
Christian J. Schlosser
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Logan A. St Michaels
Joseph C. Stachowski
• **Matthew L. Stang**
Kiana J. Stilley
Cade P. Torola
Austin S. Underhill
Paul R. Vetter
Matthew J. Vought
••• **Dayna M. Wanner**
Jacen M. Wentzell
Hayden E. Whirley

COLLEGE OF HEALTH AND HUMAN SCIENCES

Candidates will be presented by Interim Dean Ronald Werner-Wilson and marshaled by Dr. Carla Gross and student marshal Brandon Rostberg.

DOCTOR OF PHILOSOPHY

Amy L. Geinert *Counselor Education and Supervision*
"School Counselors and Their Use of Short-Term Movement in Counseling Sessions"
Advisor: Carol Buchholz Holland

Richard Nii Lante Lamptey *Pharmaceutical Sciences*
"Brain-Targeted Drug and Gene Delivery Towards the Management of Neurogenic Hypertension."
Advisor: Jagdish Singh

MD Saimon Mia *Pharmaceutical Sciences*
"Integrin β1 Promotes Cancer Progression by Altering Multiple Cell Signaling Mechanisms"
Advisor: Sijo Mathew

Terrijann Muller Dahlberg *Counselor Education and Supervision*
"Is There A Relationship Between Anxious and Avoidant Attachment Styles, ACE, and Generalized Anxiety in Graduate Students Enrolled in Counselor Education Clinical Mental Health Programs?"
Advisor: Todd Lewis

Yue Shen *Pharmaceutical Sciences*
"Brain-targeting Delivery of Human ACE2 Using Dual-functionalized Liposomes to Treat Neurogenic Hypertension"
Advisor: Chengwen Sun

Riddhi Jayesh Trivedi *Pharmaceutical Sciences*
"Functionalized Polymeric Nanoparticles Encapsulating Emtricitabine and Bictegravir for Delivery Across the Blood Brain Barrier for fhe Management of HIV Associated Neurocognitive Disorders (HAND)."
Advisor: Jagdish Singh

MASTER OF PUBLIC HEALTH

Valentina Asiedu
Carissa M. Brownotter
Adam G. Hohman
Daniel Martin

MASTER OF SCIENCE

Jordan Bentz
Human Development and Family Science
Baylee L. Gartner
Health, Nutrition and Exercise Science
Savannah L. Gibson
Pharmaceutical Sciences
Beverly A. Gravdahl
Human Development and Family Science
Alliana Houfek
Health, Nutrition and Exercise Science
Kristopher Hortemiller
Health, Nutrition and Exercise Science
Jacob T. Olson
Health, Nutrition and Exercise Science
Cody Roder
Health, Nutrition and Exercise Science
Ryan Stockie
Health, Nutrition and Exercise Science
Marcus K. Walton
Health, Nutrition and Exercise Science
Shari Wenzel
Health, Nutrition and Exercise Science
TaMerik Williams
Health, Nutrition and Exercise Science

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Human Development and Family Science
Abby R. Buechler
Nutrition Science
William Cardinal
Sport Management
• **Noelle J. Dilley**
Respiratory Care
Ashlyn M. Eagleson
Sport Management
Everett M. Erdahl
Sport Management
Anna M. Erickson
Human Development and Family Science
Ashley R. Evenson
Human Development and Family Science
Christian J. Hansen
Sport Management
Evan J. Hansen
Respiratory Care
Allison I. Haripal
Health Services
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Human Development and Family Science
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Human Development and Family Science
Ambrosia M. Howell
Human Development and Family Science
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Human Development and Family Science
Rachael Kaczor
Sport Management
Madeline O. Kerling
Human Development and Family Science
• **Katelyn Korbel**
Respiratory Care
Jessica M. LaFlamme
Respiratory Care
•• **Sidney J. Leier**
Human Development and Family Science
••• **Katiana Mastin**
Respiratory Care

Bryant Merry
Sport Management
Ashley Miller
Human Development and Family Science
Brooke A. Mogen
Exercise Science
Ashlei Parker
Human Development and Family Science
•• **Megan A. Parsons**
Human Development and Family Science
Women and Gender Studies
•• **Kayla B. Roper**
Human Development and Family Science
Lillian Rother
Human Development and Family Science
• **Sophie Rygh**
Human Development and Family Science
••• **Macie Sanderson**
Human Development and Family Science
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Sport Management
•• **Thomas W. Schmidt**
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Allison R. Skwira
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Kaedin H. Steindorf
Sport Management
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LeeAnn L. Stensrud
Respiratory Care
•• **Amber Taylor**
Respiratory Care
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Health Services
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Human Development and Family Science
• **Blake P. Wallevand**
Respiratory Care
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Human Development and Family Science
Cassidy Wendt
Human Development and Family Science
Abby Wilkinson
Sport Management
• **Taylor D. Wills**
Respiratory Care

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Lily M. Chang
• **Kaitlyn Devitt**
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Mary A. Johnson
Sydney L. Johnson
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••• **Mallory M. Knoll**
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Abbi E. Kyllo
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Kalli J. Lautt
Callahan J. McArthur
Lauren E. Mertes
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Hunter M. Neether
• **Clara E. Northenscold**
Chance S. Otterberg
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Ali J. Portra
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Maisy C. Putz-Miller
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• **Samantha J. Ranisate**
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Mikayla Roerick
Devan D. Round
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Monica I. Sanders
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Tristen J. Schuhrke
Allison M. Schumacher
Madison M. Sheldon
• **Abigail M. Shockman**
Taylore Simmons
Hailey M. Smith
• **McKenna M. Steeves**
• **Emma L. Steffens**
Caleb T. Stetz
• **Sena M. Stevens**
• **Gabrielle E. Takkunen**
McKenzie L. Thieschafer
Jake L. Tirevold
••• **Kylie A. Tucker**
Leeanne J. Tvedt
Zoe L. Uden
Ellie N. Underdahl
Morgan T. Unruh
Nou Vang
Benjamin W. Vetter
Skyy J. Wagner
Katrina E. Waller

•• **Dominick L. Wendler**
Brielle A. Willits
Maggie A. Woodbury
• **Britney N. Zupan**

NDSU THEN

NDSU NOW

North Dakota had been a state a little less than a year when Gov. John Miller signed a bill on March 8, 1890, designating a square mile of land adjoining Fargo as the site of the new campus and demonstration farm under the name, North Dakota Agricultural College.

A commitment to the federal government was honored by establishing a college of agriculture and mechanic arts under the Morrill Act of 1862. The course of studies was to be a harmonious blend of technical and academic subjects.

Known as a people's college, NDSU was part of a bold new experiment to provide access to a college education for the common person. That was how it started.

NDSU is a national model of a successful student-focused, land-grant, research institution. The university is a vibrant institution that enrolled 11,952 students during fall 2023 in its undergraduate and graduate programs.

NDSU is an R1 research institution as defined by the Carnegie Classification of Institutions of Higher Education. That is the top Carnegie status and is presented only to institutions with a very high level of research activity and a high number of doctoral degrees conferred across a balanced portfolio of disciplines. With more than $156 million in research expenditures in fiscal 2020, NDSU is ranked 97th among 415 public universities by the National Science Foundation's Higher Education Research and Development Survey.

NORTH DAKOTA STATE BOARD OF HIGHER EDUCATION

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Lisa Montplaisir
Faculty Advisor
North Dakota State University

Sadie Hanson
Student Member
University of North Dakota

Michael Linnell
Staff Advisor
Minot State University

NDSU PRESIDENTS

President	*Term*
Stockbridge, Horace E.	1890 - 1893
Powers, J. B. (Acting)	1893 - 1895
Worst, John H.	1895 - 1916
Ladd, Edwin F.	1916 - 1921
Keene, Edward S. (Acting)	February - September, 1921
Coulter, John Lee	1921 - 1929
Minard, Archibald E. (Acting)	July - September, 1929
Shepperd, John B.	1929 - 1937
West, John C. (Acting)	1937 - 1938
Eversull, Frank L.	1938 - 1946
Sevrinson, Charles A. (Acting)	June - July, 1946
Longwell, John H.	1946 - 1948
Hultz, Fred S.	1948 - 1961
Hazen, Arlon G. (Acting)	1961 - 1962
Albrecht, H.R.	1962 - 1967
Loftsgard, L.D.	1968 - 1987
Koob, Robert (Acting)	October 1987 - May 1988
Ozbun, J.L.	1988 - 1995
Plough, Thomas R.	1995 - 1998
Fischer, Allan G. (Interim)	June 1998 - 1999
Chapman, Joseph A.	1999 - 2009
Hanson, Richard (Interim)	2009 - 2010
Bresciani, Dean	2010 - 2022
Cook, David	2022 - present

THE ACADEMIC PROCESSIONAL

The academic processional that officially preludes the Commencement ceremonies on college and university campuses is one of the oldest and most colorful customs that link 21st century education with its early origins.

To signal the achievements of their students, American institutions of higher learning conduct a formal ceremony to award the appropriate degrees earned at the conclusion of prescribed study. The action of taking the degree — baccalaureate, master's or doctorate, as well as the designation of the day itself — is Commencement. Various explanations of the term Commencement are possible. The most likely is that centuries ago the bachelor, originally an apprentice, began an apprenticeship upon that day; and with the degree of M.A. and Ph.D., the masters and doctors commenced their work upon the day their degrees were conferred. So today, students, having finished their preliminary education, set out upon the career for which they have prepared.

ACADEMIC APPAREL

As cited in Academic Heraldry in America (Sheard, 1962), the academic regalia worn at Commencement is of medieval origin. The scholars of Bologna, Salamanca, Paris, Oxford, Cambridge, Louvain and Heidelberg dressed in a manner to distinguish themselves from the merchants and other townspeople. Since the 11th century, when the rise of universities began, "learned clerks" robed themselves in gowns, caps and hoods, thus marking a difference between "town and gown."

By this apparel they were recognized as belonging to the teaching guild, which was the Guild of the Master of Arts. In this organization, the bachelor was the apprentice of the master. This relationship was the forerunner of today's academic structure.

Today, customs vary in different parts of the world. Generally in Europe, professors wear the type of garment customary in the university where they are lecturing. In the United States, professors continue to wear the gown and hood of the university from which they received their highest degree. The gown, in origin, may have been simply a type of overcoat to protect the teacher from the cold in unheated buildings; the cut or style seems to be derived from ecclesiastical attire. It has usually been black; however, in recent years some institutions have adopted a school color for their gowns. The gowns of bachelors and masters are usually without trimmings of any sort, whereas those of doctors are faced down the front with velvet and adorned with three velvet bars on the sleeves.

The cap or "mortarboard" may have come from the squarish cap worn by the masons of the Middle Ages, or perhaps was suggested by the shape of the books that occupied so much of the scholar's time. Attached to a button atop the "mortarboard" is a tassel. The tassel is worn on the left side by individuals receiving or have received a degree. For photography purposes, a candidate's tassel may be worn on the right side of the mortarboard.

The hood, a triangular fold of cloth worn over the back of the gown, is faced with colors which denote the field of study represented by the wearer's degree; the colors of the lining are those of the college or university that granted the degree. The length of the hood is correspondingly longer with each higher degree.

The wide velvet borders extending down the front of the doctoral gown, the velvet bars on the sleeves and the borders of most hoods, are colored according to the scholarly field of the wearer. The most usual of these doctoral hood colors are the following:

blue violet	Architecture
white	Arts, Letters and Humanities
copper	Economics
light blue	Education
orange	Engineering
brown	Fine Arts
crimson	Communication
purple	Law
lemon	Library Science
pink	Music
dark blue	Philosophy
sage green	Physical Education
salmon pink	Public Health
gold	Science
scarlet	Theology

While the arrangement of colors is pleasing to the eye and add beauty and impressiveness to ceremonial processions, there is historic significance attached to their selection. The white for arts and letters comes from the white fur of the Oxford and Cambridge B.A. hoods. The red for theology, as used by cardinals for centuries, follows the traditional color of the church. The purple for law comes from the royal purple of the king's courts. The green for medicine, from the stripe in the army surgeon's uniform, and earlier from the color of medicinal herbs.

The degrees in philosophy are shown by blue, the color of truth and wisdom. Science by gold-yellow, which signifies wealth contributed by scientific discoveries. Pink was taken from the pink brocade prescribed for the Oxford doctors of music. Olive, a shade of green, was selected for pharmacy, which is closely allied to medicine; while russet brown, the color of dress worn by old English foresters, indicates forestry.

Graduate candidates wear a hood colored according to the scholarly field of the wearer.

maize	Agriculture, Food Systems, and Natural Resources
brown	Landscape Architecture and Environmental Design
white	Arts, Humanities and Social Sciences
drab	Business
light blue	Education
orange	Engineering
maroon	Human Development
apricot	Nursing
olive green	Pharmacy
golden yellow	Science and Mathematics
white	University Studies

UNIVERSITY MACE

The mace has an ancient history of use as a symbol of authority. Originally used by knights or a royal bodyguard to protect a king in processions, the mace evolved to assume more ceremonial functions by the 14th century.

The NDSU institutional mace was created for NDSU's centennial. Dr. Fredrick G. Walsh was appointed by President Loftsgard to help create the mace as the leader of the 1986 centennial committee. The mace was designed by Dr. Walsh's son, Fredrick H. Walsh. It was introduced during President Ozbun's inauguration on Sept. 14, 1989.

Today, the NDSU mace is carried by the stage marshal, the presiding officer of the Faculty Senate, as he leads the president and other platform party dignitaries in commencement processions.

GRADUATION HONORS

WITH HONOR: Graduation with honor applies only to the baccalaureate degree. Graduate courses will not be included in the computation. Candidates who entered NDSU as freshmen and who have earned an institutional grade-point average greater than or equal to 3.5 and less than 3.7 will be graduated Cum Laude, an institutional grade-point average greater than or equal to 3.7 and less than 3.9 will be graduated Magna Cum Laude, and an institutional grade-point average greater than or equal to 3.9 and up to 4.0 will be graduated Summa Cum Laude. All final grades on the NDSU academic record will be included in grade-point average calculations for graduating with honor. The honor medallion is a gold medallion on a yellow ribbon and is worn around the neck. The medallion features the NDSU seal.

Other academic honors include the following:

ALPHA EPSILON, *national honor society of agricultural, biological and food engineers:* A double intertwined black and gold honor cord is worn around the neck. To qualify, juniors and seniors in agricultural and biosystems engineering must be in the top one-fourth and one-third, respectively, of their class in the College of Engineering and uphold high standards of character and leadership.

BETA GAMMA SIGMA, *international business honor society:* A blue and gold cord is worn around the neck. Students, by class, who qualify are: juniors, top 7 percent; seniors, top 10 percent; and graduate students, top 20 percent.

BLUE KEY, *national honor society:* A blue and gold medallion with a blue ribbon is worn around the neck. Blue Key recognizes students for remarkable leadership and outstanding service to the university and the community. Academic achievement of members must be within the top 35 percent of their class.

ETA KAPPA NU, *the honor society of IEEE:* A gold cord with blue and red tassels is worn around the neck. IEEE-HKN encourages and recognizes outstanding character, attitude and scholarship among electrical and computer engineers. Students must be in the top fifth of their sophomore class, top quarter of juniors, top third of seniors or graduate students recommended by faculty.

GAMMA SIGMA DELTA, *international agriculture honor society:* A forest green and light tan honor cord is worn around the neck. Membership is conferred upon selected students who have demonstrated superior teaching, research or service to agriculture while maintaining a 3.5 grade-point average. Members represent agricultural excellence at the undergraduate, graduate and post-graduate levels.

GOLDEN KEY, *international honor society:* A gold medallion on a blue and gold ribbon is worn around the neck. Golden Key recognizes juniors and seniors from all disciplines who are in the top 15 percent of their class.

LAMBDA BETA HONOR SOCIETY, *national respiratory care honor society:* A forest green and black ribbon pin is worn on the gown. Members must have completed at least 50 percent of their course work and rank academically in the top 25 percent of the respiratory care class.

LAMBDA PI ETA, *national communication honorary society:* A gold cord is worn around the neck. To qualify, members must have a cumulative grade-point average of 3.0 with a 3.25 in their communication major courses.

MORTAR BOARD, *national honor society:* A gold medallion is worn around the neck. Mortar Board recognizes college seniors for distinguished ability and achievement in scholarship, leadership and service. Members also must meet at least a 3.0 grade-point average.

NATIONAL COUNCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING: A red and silver cord is worn around the neck. The honor cord is awarded to graduating students who have taken and passed the Fundamentals of Engineering (FE) Exam. Passing the FE Exam requires demonstration of competency across a wide range of technical areas, and is an important step towards earning the title of a licensed Professional Engineer.

NATIONAL RESIDENCE HALL, *honorary:* A navy blue honor cord is worn around the neck. To qualify, members must demonstrate leadership and academic qualities within the top 1 percent of the residence hall population.

ORDER OF OMEGA, *national fraternity and sorority life honorary society*: A gold stole is worn around the neck. Order of Omega recognizes the top 3 percent of juniors and seniors who have exemplified high standards in the areas of scholarship with a 3.25 grade-point average; and leadership and involvement within their respective organization(s), fraternity or sorority, campus and local community.

PHI ALPHA THETA, *national history honor society:* A pale blue and red cord is worn around the neck. Members represent excellence in historical research at all levels: undergraduate, graduate and post-graduate.

PHI ETA SIGMA, *national honor society:* A black and gold cord worn around the neck. To qualify, students must have a 3.5 institutional grade-point average at the close of any full-time semester during their first year.

PHI KAPPA PHI, *honorary scholastic society:* A gold stole is worn around the neck. Members are chosen from among students in the top 10 percent of their class.

PHI UPSILON OMICRON (PHI U), *honorary human development and education society:* Double cords of entwined purple, white and yellow are worn around the neck. Academic achievement must be within the top 35 percent of majors in the field who qualify for membership.

PI LAMBDA THETA, *international education honor society:* A gold cord is worn over the left shoulder. A division of PDK International, Pi Lambda Theta recognizes undergraduate juniors, seniors and graduate students who are pursuing degrees in education-related fields and who have a cumulative GPA of 3.50 or higher.

PI SIGMA ALPHA, *national political science honor society:* A cloissonné, medallion on a red ribbon, is worn around the neck. To qualify, students must have a cumulative grade-point average of 3.0 and have a 3.0 grade-point average in all political science courses.

PI TAU SIGMA, *international mechanical engineering honor society:* A white stole with the Pi Tau Sigma coat of arms is worn around the neck. To qualify, juniors in the mechanical engineering program must be in the top 25 percent of their class; as non-graduating seniors, members must be in the top 35 percent of their class.

PSI CHI, *national psychology honor society:* A silver stole is worn around the neck. To qualify, members must have a 3.0 cumulative grade-point average, a 3.5 major grade-point average and rank in the upper 35 percent of their class.

RHO CHI SOCIETY, *national pharmacy honor society:* A purple and white honor cord is worn around the neck. To qualify, members must have completed their second year of the professional program. Membership is offered to the top 20 percent of the class.

SIGMA THETA TAU, *international honor society of nursing:* An orchid and white cord is worn around the neck. To qualify, members must have a 3.0 grade-point average, rank in the upper 35 percent of their nursing class and meet the expectation of academic integrity.

SIGMA TAU DELTA, *international English honor society:* A red stole is worn around the neck. Undergraduate members must rank in the top 35 percent of their class. Graduate members must have at least a 3.3 grade-point average.

STUDENT GOVERNMENT: A green and gold cord is worn around the neck. To qualify, members of Student Government must have achieved a 3.0 cumulative grade-point average.

STUDENT NURSES' ASSOCIATION BOARD MEMBER: A silver, light blue and purple cord is worn around the neck symbolizing insight, inspiration and ingenuity. To qualify, a board member must have a 3.5 cumulative GPA and be an active member of the local chapter for three consecutive semesters, participating in at least two service activities and at least three meetings each semester.

TAU BETA PI, *national engineering honor society:* A white satin collar with the Bent embroidered in gold is worn around the neck. To qualify as juniors, members must be in the top one-eighth of their engineering class; as seniors, members must be in the top one-fifth of their engineering class.

TAU SIGMA DELTA, *national architecture honor society:* A white stole with gold embroidery is worn around the neck. To qualify, juniors or seniors must have a 3.0 grade-point average and be in the upper 20 percent of their class.

UNIVERSITY HONORS PROGRAM: A gold medallion on a green ribbon is worn around the neck. Honors program graduates have completed, in addition to their primary majors, a four-year curriculum of interdisciplinary honors courses and have produced and publicly presented a senior honors thesis.

UPSILON PI EPSILON, *national computer science honor society:* Medallion with burgundy ribbon is worn around the neck. To qualify, undergraduate students must be upperclass status in the top 35 percent of their class and have a minimum grade-point average of 3.3, with at least a 3.5 grade-point average in 24 or more credits of computer science courses. Graduate students must have at least 18 upper-division computer science credits with a minimum grade-point average of 3.5.

VETERAN HONOR SOCIETY: A red, white and blue braided cord is worn around the neck, adorned with a medallion representing the student's branch of service. To qualify, the student must have at least a 3.0 cumulative grade-point average and represent the North Dakota State University veteran community in a positive way.

HONORARY DOCTORATES

1939
Dean H. L. Bolley, D.Agr.
C. B. Waldron, D.Agr.

1940
Arni Helgeson, D.Agr.
George Will, D.Sc.
Philip S. Rose, D.Agr.
M. L. Wilson, D.Agr.
Henry H. Kildee, D.Agr.

1943
Maj. Gen. James A. Ulio, D.Sc. in Mil. Sci.

1946
Dr. L. Van Es, D.Agr.

1948
O. A. Stevens, D.Sc.

1949
Jack Pyle, LL.D.
Dr. F. L. Hovde, LL.D.

1950
J. L. Coulter, D.Sc.
Alex Lind, LL.D.

1951
Clyde H. Bailey, D.Sc.

1952
D. Milton Ladd, LL.D.

1953
Dr. H. L. Walster, D.Sc.

1954
Dean R. M. Dolve, D.Sc.

1955
Dean W. F. Sudro, D.Sc.
Newell P. Beckwith, D.Sc.

1956
Roy Johnson, D.Sc.

1957
John Haw, D.Sc.

1958
Dr. Melvin Brodshaug, Litt.D.
Duke de Vallombrosa, LL.D.

1959
Donald Fletcher, D.Sc.
James B. Konen, D.Sc.

1960
T. E. Stoa, D.Sc.
Robert B. Parrott, LL.D.

1961
E. J. Haslerud, D.Sc

1962
Charles E. Kellogg, D.Sc.
H. H. Flor, D.Sc.
George E. Abbott, D.Sc.
Edward A. Steinhaus, D.Sc.

1963
Dr. Irvamae Applegate, D.Sc.
Dr. Hilton M. Briggs, D.Sc.
Dr. Patrick H. Costello, D.Sc.
Dr. James Scott Long, D.Sc.

1964
Reuben W. Askanase, LL.D.
W. B. Baker, LL.D.
Ernest J. George, D.Sc.
Clarence F. Kelly, D.Sc.

1965
Dr. Marlin George Cline, D.Sc.
H. Christine Finlayson, D.Sc.
Justice Samuel Freedman, LL.D.
Lois Phillips Hudson, Litt.D.
Alvin A. Johnson, D.Agr.
Dr. Lyle W. Phillips, D.Sc.
Brig. Gen. Lawrence F. Tanberg, D.Sc.
Clarice Gullickson Taylor, D.Sc.
Lawrence Welk, D.Mus.

1966
Harold B. Bachman, D.Mus.
Dr. Leon O. Jacobson, D.Sc.
Robert Pearson, D.Sc.
Glenn J. Talbott, D.Agr.
Vernon O. Trygstad, D.Sc.

Special Convocation

Dec. 15, 1966
General Harold K. Johnson, L.H.D.

1967
Patrick E. Haggerty, D.Sc.
Dr. E. F. Knipling, D.Sc.
Dr. Casper I. Nelson, D.Sc.
Dr. O. Meredith Wilson, L.H.D.

1968
C. N. Nelson, D.Sc.
Charles R. Walgreen Jr., D.Sc.

During Inaugural
April 11, 1969
Dr. Clifford M. Hardin, D.Sc.

1969
Clifford H. Willson, D.Sc.

1970
Gilmore T. Schjeldahl, D.Sc.
Senator Milton R. Young, D.Sc.

1971
Lawrence B. Hall, D.Sc.
George A. Rogler, D.Sc.

1972
Dr. H. R. Albrecht, D.Sc.
Clyfford Still, D.F.A.

1973
William L. Guy, LL.D.
Dr. G. Wilson Hunter, D.Sc.

1974
Miss Mercedes Bates, D.Sc.
Dr. Reinhard Wolff, D.Sc.

1975
Miss Peggy Lee, D.Mus.
Irwin R. Rector, D.Sc.

1976
Paul M. Gallagher, LL.D.
Thomas S. Kleppe, LL.D.
Satenig S. St.Marie, LL.D.

1977
Albert Doerr, D.Sc.
Harold Schafer, LL.D.
Larry Alfred Woiwode, Litt.D.

1978
Mark Andrews, LL.D.
Dr. David Schindler, D.Sc.

1979
Roland F. Harding, D.Sc.

1980
Quentin N. Burdick, LL.D.
Dr. Beverly Pfeifer Lynch, Litt.D.

1981
M. Truman Fossum, D.Sc.
Louis L'Amour, Litt.D.
John L. McCormick Jr., LL.D.

1982
Katherine K. Burgum, D.Sc.
Dr. Robert W. Coon, D.Sc.

1983
John Rouzie, D.Hum.Litt.

1984
Brynhild Haugland, LL.D.

1985
Edwin M. Anderson, D.Sc.
John H. Ladish, D.Sc.

1986
James H. Critchfield, D.Sc.
Richard P. Critchfield, L.H.D.
William A. Schlossman, LL.D.

1987
Robert M. Hendrickson, LL.D.

1988
Dr. Marvin E. Jensen, D.Sc.
Glen J. Schoessow, D.Sc.

1989
Ernest G. Anderson, D.Sc.
Howard M. Olson, D.Sc.

1990
Warren B. Diederich, D.Sc.
Fred B. Scheel, LL.D.
William J. Grosz, D.Sc.
David M. Gipp, LL.D.
C. Warner Litten, LL.D.
Donald J. Kenna, D.Sc.
Harold J. Klosterman, D.Sc.
Anne Stegner, LL.D.
Glenn S. Smith, D.Sc.
Stanley W. Bale, D.Sc.

1991
Lloyd Thompson, D.Sc.

1992
Aldrich C. Bloomquist, D.Sc.
Harvey K. Nelson, D.Sc.
Art Bunker, LL.D.

1993
Dr. Robert O. Brandenburg, D.Sc.
William C. Marcil, Litt.D.
George A. Sinner, L.H.D.

1994
Jean Mason Guy, L.H.D.
Peter Schickele, D.F.A.

1995
Dr. Jack F. Carter, D.Sc.
Robert N. Spolum, LL.D.

1996
Dr. Philip E. Austin, LL.D.

1998 May
Lendal H. Kotschevar, LL.D.
Ronald D. Offutt, LL.D.

1998 December
Dr. James M. Sugihara, D.Sc.

1999 May
Alf H. Clausen, D.Mus.
Dr. R. James Cook, D.Sc.

1999 December
Robert C. Dawson, LL.D.

2000 May
David W. Bernauer, D.Sc.
Douglas J. Burgum, LL.D.

2000 December
Ervin E. Kaiser, LL.D.

2001 May
Dr. A. Catherine Cater, D.F.A.
Dr. Evelyn R. Morrow Lebedeff, LL.D.

2001 December
Byron Dorgan, LL.D.

2002 May
John Q. Paulsen, LL.D.
Fred G. Paavola, D.Sc.

2003 May
Ian B. Edwards, D.Sc.
Michael E. Hanson, D.Sc.

2004 December
General Charles F. Wald, LL.D.

2005 May
James Rosenquist, D.F.A.

2006 May
Steve Swiontek, LL.D.

2006 December
Russell F. Freeman, LL.D.

2007 May
Frank Jennings, LL.D.
James Meier, D.Sc.

2007 December
John Dean, D. Agr.
Sheldon Ellig, LL.D.
Harold Newman, LL.D.

2008 May
Myron Bright, LL.D.
Dr. Calvin Fercho, D. Sc.

2008 December
Maj. Gen. Darrol G. Schroeder, LL.D.
Maj. Gen. Terry L. Scherling, LL.D.

2009 May
Robert Challey, LL.D.

2010 May
Esther Myers, LL.D.

2010 December
Barry Batcheller, D.Sc.

2012 December
Gregg Halverson, D.Agr.

2016 May
Dr. Myron D. Johnsrud, D.Agr.

2017 May
Dr. H. Roald Lund, D.Agr.

2018 May
John R. Klai II, D.Hum.Litt.

2018 December
Spencer Duin, D.Sc.

2019 December
Dr. Berdell Funke, D.Sc.

2021 May
Prakash Mathew, D.Hum.Litt.

2021 December
William Goetz, D.B.

2022 May
Neal Fisher, D.Agr.

2023 May
Sheila Challey, D.Hum.Litt.

2023 December
Norma Peltier, D.Agr.

HONORARY DOCTORATES

HONORIS CAUSA

D. Agr.	*Agriculture*
D.B.	*Business*
D.F.A.	*Fine Arts*
D. Hum.Litt.	*Humane Letters*
D.Mus.	*Music*
D.Sc.	*Science*
D.Sc. in Mil. Sci.	*Military Science*
J.D.	*Laws*
L.H.D.	*Humanities*
Litt.D.	*Letters*
LL.D.	*Laws*

THE STAR SPANGLED BANNER

BY FRANCIS SCOTT KEY

Oh, say can you see by the dawn's early light,
What so proudly we hailed at the twilight's last gleaming?
Whose broad stripes and bright stars, thru the perilous fight,
O'er the ramparts we watched, were so gallantly streaming?
And the rockets' red glare, the bombs bursting in air,
Gave proof through the night that our flag was still there.
Oh, say does that star-spangled banner yet wave
O'er the land of the free and the home of the brave?

THE YELLOW AND THE GREEN

WORDS BY A.E. MINARD
MUSIC BY DR. C.S. PUTNAM

Ho! a cheer for green and yellow
Up with yellow and the green,
They're the shades that deck our prairies
Far and wide with glorious sheen,
Fields of waving green in springtime
Golden yellow in the fall —
How the great high-arching heaven
Looks and laughs upon it all.

NDSU NORTH DAKOTA STATE UNIVERSITY

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